

PSEUDO-LRU FOR A LOCKING CACHEABSTRACT

The present invention provides for a cache-accessing
5 system employing a binary tree with decision nodes. A cache
comprising a plurality of sets is provided. A locking or
streaming replacement strategy is employed for individual
sets of the cache. A replacement management table is also
provided. The replacement management table is employable
10 for managing a replacement policy of information associated
with the plurality of sets. A pseudo least recently used
function is employed to determine the least recently used
set of the cache, for such reasons as set replacement. An
override signal line is also provided. The override signal
15 is employable to enable an overwrite of a decision node of
the binary tree. A value signal is also provided. The
value signal is employable to overwrite the decision node of
the binary tree.